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L3 ('5861274'| '5686596')[PN] 2 L3L2 L1 and (peroxisome adj proliferator adj activated adj receptor or "ppar" or "PPAR" or peroxisome adj proliferator adj activator adj receptor) 45 L2L1 @pd<19990622 6359204 L1

END OF SEARCH HISTORY

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**Term:**

@pd<20000622 and (peroxisome adj proliferator adj  
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<u>L4</u>	@pd<20000622 and (peroxisome adj proliferator adj activated adj receptor or "ppar" or "PPAR" or peroxisome adj proliferator adj activator adj receptor)	88	<u>L4</u>
<u>L3</u>	('5861274' '5686596')[PN]	2	<u>L3</u>
<u>L2</u>	L1 and (peroxisome adj proliferator adj activated adj receptor or "ppar" or "PPAR" or peroxisome adj proliferator adj activator adj receptor)	45	<u>L2</u>
<u>L1</u>	@pd<19990622	6359204	<u>L1</u>

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**Term:**

@pd<20000622 and (peroxisome adj proliferator adj  
 activated adj receptor or "ppar" or "PPAR" or  
 peroxisome adj proliferator adj activator adj  
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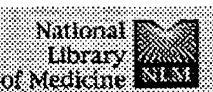
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*DB=USPT; PLUR=YES; OP=OR*

<u>L4</u>	@pd<20000622 and (peroxisome adj proliferator adj activated adj receptor or "ppar" or "PPAR" or peroxisome adj proliferator adj activator adj receptor)	88	<u>L4</u>
<u>L3</u>	('5861274'   '5686596')[PN]	2	<u>L3</u>
<u>L2</u>	L1 and (peroxisome adj proliferator adj activated adj receptor or "ppar" or "PPAR" or peroxisome adj proliferator adj activator adj receptor)	45	<u>L2</u>
<u>L1</u>	@pd<19990622	6359204	<u>L1</u>

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☐ 1: Mol Ther. 2002 Aug;6(2):265-71.

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## Efficient gene regulation by PPAR gamma and thiazolidinediones in skeletal muscle and heart.

Darteil R, Wang M, Latta-Mahieu M, Caron A, Mahfoudi A, Staels B, Thuillier V.

PubMed  
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Gencell, 13 quai Jules Guesde, Vitry sur Seine, 94403, France.

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We have developed a new gene regulation system for gene therapy. This system consists of two expression cassettes; one expresses the human peroxisome proliferator-activated receptor gamma (PPAR gamma), and the other expresses the therapeutic gene under the control of multiple peroxisome proliferator-activated receptor (PPAR) response elements (PPREs) linked to a basal promoter. Using direct injection of plasmid DNA into skeletal muscle or myocardium of rodents and oral administration of clinically approved PPAR gamma activators, we demonstrate that reporter gene expression can be induced more than 25-fold. We show that oral administration of PPAR gamma activator at intervals separated by several months results in repeated pulses of high-level reporter gene expression. We also document a PPAR gamma activator dose-response effect on reporter gene expression. This is the first report of a gene regulation system that makes use of a human transcription factor and that may be safer than chimeric transcription factors for human gene therapy.

PMID: 12161194 [PubMed - indexed for MEDLINE]

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1: Mol Ther. 2002 Aug;6(2):265-71.

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## Efficient gene regulation by PPAR gamma and thiazolidinediones in skeletal muscle and heart.

Darteil R, Wang M, Latta-Mahieu M, Caron A, Mahfoudi A, Staels B, Thuillier V.

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### MeSH Terms:

- Animals
- Female
- Gene Expression Regulation/drug effects\*
- Genes, Reporter
- Heart/drug effects
- Human
- Kinetics
- Luciferase/genetics
- Male
- Mice
- Mice, Inbred C57BL
- Mice, SCID
- Muscle, Skeletal/drug effects
- Muscle, Skeletal/metabolism

- Myocardium/metabolism
- Rats
- Rats, Sprague-Dawley
- Receptors, Cytoplasmic and Nuclear/agonists
- Receptors, Cytoplasmic and Nuclear/metabolism\*
- Support, Non-U.S. Gov't
- Support, U.S. Gov't, P.H.S.
- Thiazoles/pharmacology\*
- Thiazolidinediones\*
- Transcription Factors/agonists
- Transcription Factors/metabolism\*

Substances:

- Receptors, Cytoplasmic and Nuclear
- Thiazoles
- Thiazolidinediones
- Transcription Factors
- peroxisome proliferator-activated receptor
- rosiglitazone
- Luciferase

Grant Support:

- M01 RR00047/RR/NCRR
- M01RR00102/RR/NCRR
- P01 HL51746-06A1/HL/NHLBI
- R01 HL 59861/HL/NHLBI
- U01 HL 66952-01/HL/NHLBI

PMID: 12161194 [PubMed - indexed for MEDLINE]

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(FILE 'HOME' ENTERED AT 19:17:29 ON 16 DEC 2003)

FILE 'MEDLINE' ENTERED AT 19:17:34 ON 16 DEC 2003

L1 1081 S PPAR AND GAMMA  
L2 7 S L1 AND GENE(W)REGULATION  
L3 5 S L2 AND 1970<=PY<=2000

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, SCISEARCH, WPIDS' ENTERED AT  
19:19:25 ON 16 DEC 2003

L4 63 S L3  
L5 5 DUP REM L3 (0 DUPLICATES REMOVED)  
L6 42 DUP REM L4 (21 DUPLICATES REMOVED)

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L6 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:772790 CAPLUS

DOCUMENT NUMBER: 133:330487

TITLE: Genes regulated by ligands for the peroxisome  
proliferator activated receptor .gamma. and  
their used in screening for new ligands

INVENTOR(S): Gould-Rothberg, Bonnie

PATENT ASSIGNEE(S): Curagen Corporation, USA

SOURCE: PCT Int. Appl., 85 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000065091	A2	20001102	WO 2000-US10757	20000421 <--
WO 2000065091	A3	20020912		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,  
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,  
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,  
ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-130821P P 19990423

US 2000-546038 A 20000410

AB Disclosed are methods of identifying ligands for the peroxisome  
proliferator activated receptor **gamma** (PPAR.  
**gamma**.) using differential gene expression. Also disclosed are  
novel nucleic acid sequences whose expression is differentially regulated  
by PPAR.**gamma**. ligands.

L6 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:752997 CAPLUS

DOCUMENT NUMBER: 134:291030

TITLE: Transcriptional activation of the human ucpl gene in a  
rodent cell line. Synergism of retinoids,  
isoproterenol, and thiazolidinedione is mediated by a  
multipartite response element

AUTHOR(S): Del Mar Gonzalez-Barroso, Maria; Pecqueur, Claire;  
Gelly, Chantal; Sanchis, Daniel; Alves-Guerra,

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(FILE 'HOME' ENTERED AT 19:17:29 ON 16 DEC 2003)

FILE 'MEDLINE' ENTERED AT 19:17:34 ON 16 DEC 2003

L1 1081 S PPAR AND GAMMA  
L2 7 S L1 AND GENE(W)REGULATION  
L3 5 S L2 AND 1970<=PY<=2000

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, SCISEARCH, WPIDS' ENTERED AT  
19:19:25 ON 16 DEC 2003

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L5 5 DUP REM L3 (0 DUPLICATES REMOVED)  
L6 42 DUP REM L4 (21 DUPLICATES REMOVED)

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L7 1924 S PPAR  
L8 1 S L7 AND INDUCIBLE(W)EXPRESSION

FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS, SCISEARCH, WPIDS' ENTERED AT  
19:41:56 ON 16 DEC 2003

L9 14 S L8  
L10 8 DUP REM L9 (6 DUPLICATES REMOVED)

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L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2003:118019 CAPLUS

DOCUMENT NUMBER: 138:164730

TITLE: **Inducible expression** systems  
employing **PPAR** transcriptional activators  
with modified zinc finger P box and corresponding  
response elements

INVENTOR(S): Darteil, Raphael

PATENT ASSIGNEE(S): Aventis Pharma S.A., Fr.

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003012113	A2	20030213	WO 2002-EP9416	20020801
WO 2003012113	A3	20030918		

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,  
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
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NE, SN, TD, TG

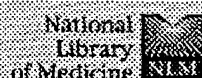
EP 1288303 A1 20030305 EP 2001-120270 20010823

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.: US 2001-309189P P 20010802

EP 2001-120270 A 20010823





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☐ 1: Ann N Y Acad Sci. 1996 Dec 27;804:373-86.

[Related Articles, Links](#)

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## The peroxisome proliferator-activated receptor: transcriptional activation of the CYP4A6 gene.

Johnson EF, Palmer CN, Hsu MH.

PubMed  
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Scripps Research Institute, Department of Molecular and Experimental Medicine,  
La Jolla, California 92037, USA.

PMID: 8993557 [PubMed - indexed for MEDLINE]

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